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15:4775 - 1976

Indian Standard SPECIFICATION FOR PICKING STICKS FOR AUTOMATIC AND UNDERPICK LOOMS

(First Revision)

UDC 677 054 753



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INDIAN STANDARDS INSTITUTION MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG NEW DELHI 110002

January 1977

AMENDMENT NO. 1 SEPTEMBER 1978

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IS:4775-1976 SPECIFICATION FOR PICKING STICKS FOR AUTOMATIC AND UNDERPICK LOOMS

(First Revision)

Alteration

(Page 3, clause 2.1) - Substitute the following for the existing clause:

'2.1 Material - The picking sticks shall be manufactured from compreg conforming to Type V of IS:3513(Part III)-1966†.'

(TDC 19)

Reprography Unit, ISI, New Delhi

Indian Standard

SPECIFICATION FOR PICKING STICKS FOR AUTOMATIC AND UNDERPICK LOOMS

(First Revision)

Textile Mill Accessories (Other Than Jute) Sectional Committee, TDC 19

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(Continued on page 2)

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(Continued from page 1)

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Indian Standard

SPECIFICATION FOR PICKING STICKS FOR AUTOMATIC AND UNDERPICK LOOMS

(First Revision)

0. FOREWORD

- 0.1 This Indian Standard (First Revision) was adopted by the Indian Standards Institution on 8 November 1976, after the draft finalized by the Textile Mill Accessories (Other Than Jute) Sectional Committee had been approved by the Textile Division Council
- 0.2 This standard was first published in 1968 and covered picking sticks for underpick looms only. While revising this standard it was felt that since the requirements of picking sticks for automatic looms and underpick cotton, woollen and worsted looms are identical, the scope of this revision should be enlarged to include picking sticks for automatic looms also.
- 0.3 Since the dimensions and shape of picking sticks vary to a great extent depending upon the make of loom, this standard does not prescribe the dimensional requirements of picking sticks and, as such, permissible tolerances on various dimensions have been prescribed in this standard.
- **0.4** For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test, shall be rounded off in accordance with IS:2-1960*. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

1. SCOPE

1.1 This standard prescribes requirements of picking sticks for use on automatic cotton looms and underpick cotton, woollen and worsted looms.

2. MANUFACTURE

2.1 Material — The picking sticks shall be manufactured from medium density compreg conforming to IS:3513 (Part III)-1966†.

^{*}Rules for rounding off numerical values (revised).

[†]Specification for high and medium density wood-based laminates (compreg): Part III General purposes.

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- 2.2 Finish The picking sticks should have a smooth finish and may be given a coat of varnish if prescribed by the buyer.
- 2.3 Freedom From Defects The picking sticks shall be free from checks, splits, blisters, overlaps, gaps and open joints or any other defect which is likely to affect the life or usefulness of the picking sticks.

3. REQUIREMENTS

3.1 Dimensions — The dimensions and shape of picking sticks shall be as prescribed by the buyer depending upon the make of the loom. Two typical sketches of picking sticks are shown in Fig. 1. The tolerances on various dimensions shall, however, be as follows:

Dimensions	Tolerance, mm	
Overall length	±3	
Thickness and width	±0·5	
Height of the first hole from the bottom end	±1	
Diameter of holes	+·0 0·5	
Distance between pair of holes	<u>+1</u>	

- 3.1.1 Warping Warping to an extent of 1 mm per metre shall be permitted.
- 3.2 Mass The mass of a picking stick shall be as agreed to between the buyer and the seller subject to a tolerance of ± 3 percent.

4. MARKING

- 4.1 Each picking stick shall be marked at a suitable place with the manufacturer's name, initials or trade-mark, if any.
 - 4.1.1 Picking sticks may also be marked with the ISI Certification Mark.

Note—The use of the ISI Certification Mark is governed by the provisions of the Indian Standards Institution (Certification Marks) Act and the Rules and Regulations made thereunder. The ISI Mark on products covered by an Indian Standard conveys the assurance that they have been produced to comply with the requirements of that standard under a well-defined system of inspection, testing and quality control which is devised and supervised by ISI and operated by the producer. ISI marked products are also continuously checked by ISI for conformity to that standard as a further safeguard. Details of conditions under which a licence for the use of the ISI Certification Mark may be granted to manufacturers or processors, may be obtained from the Indian Standards Institution.

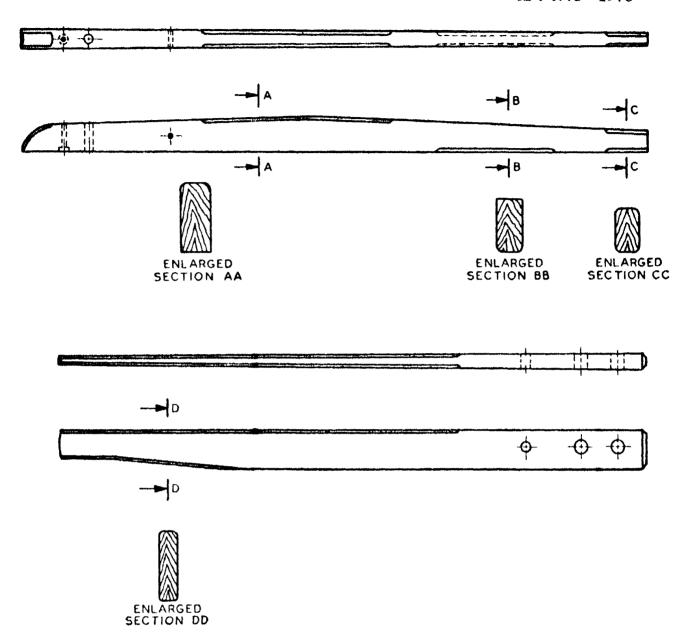


FIG. 1 TYPICAL PICKING STICKS

5. PACKING

- 5.1 A suitable number of picking sticks of one type shall be made into a bundle by tying at three places with twine. The number of picking sticks in a bundle shall be as agreed to between the buyer and the seller. Each bundle shall be packed in hessian.
- 5.2 Each bundle shall be marked with the following:
 - a) Manufacturer's name, initials or trade-mark, if any;
 - b) Number of picking sticks in the bundle; and
 - c) Type of loom on which the picking sticks are to be used.

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6. SAMPLING

- 6.1 All the picking sticks of one type and size and manufactured from the same raw material delivered to a buyer against a despatch note shall constitute a lot.
- 6.2 The conformity of the lot to the requirements of this standard shall be determined on the basis of the tests carried out on the samples selected from it.
- 6.3 Unless otherwise agreed to between the buyer and the seller, the number of picking sticks to be selected at random from a lot shall be in accordance with col 1, 2 and 4 of Table 1.

Lot Size	No. of Picking Sticks to be Selected for Testing Dimensions	PLRMISSIBLE NO OF NON-CONFORMING PICKING STICKS AMONGST THOSE SELECTED IN COL 2	No. of Picking Sticks to be Slefcted for Determining Mass From Amongst Those Sleected in Col 2
(1)	(2)	(3)	(4)
Up to 150	13	1	3
151 ,, 300	20	1	5
301 ,, 500	32	2	8
501 ,, 1000	50	3	13
001 and above	80	5	20

6.4 The number of picking sticks to be tested and criterion for conformity for each of the characteristics shall be as follows:

Characteristic	No. of Picking Sticks to be Tested	Criterion for Conformity
Dimensions	See col 2 of Table 1	Non-conforming sticks not to exceed the corresponding number given in col 3 of Table 1
Mass	See col 4 of Table 1	Each observed value satisfies the requirements (see 3.2)



AMENDMENT NO. 2 AUGUST 1982

TO

IS: 4775-1976 SPECIFICATION FOR PICKING STICKS FOR AUTOMATIC AND UNDERPICK LOOMS

(First Revision)

Addenda

[Page 3, clause 2.1 (see also Amendment No. 1)] — Add the following new sentence at the end of the clause:

'The species of timber given in Appendix A to the standard shall be used for the manufacture of veneers required for making compreg.'

(Page 6, clause 6.4) - Add the following new Appendix after 6.4:

'APPENDIX A

(Clause 2.1)

SPECIES OF TIMBER TO BE USED FOR MANUFACTURE OF VENEERS REQUIRED FOR MAKING COMPREG

Trade Name Botanical Name Artocarpus hirsutus Aini Amoora spp. Amari Terminalia arjuna Arjun Bahera Terminalia bellirica Carallia brachiate Carallia Artocarpus chaplasha Chaplash Chukrasia velutina Chickrassy Schima wallichii Chilauni Debdaru Polyalthia spp. Dillenia spp. Dilienia Gondsoroi Cinnamomum cecicodaphne Dipterocarpus spp. Gurjan Pterospermum acerifolium Hathipaila Terminalia myriocarpa Hollock Dipterocarpus macrocarpus Hollong

Trade Name Botanical Name

Jaman Syzygium spp.
Jutili Altingia excelsa

Kanju Holopetelea integrifolia Karani Cullenia rosayroana Kathal Artocarpus heterophyllus

Kendu Diespyros spp.

Kindal Terminalia paniculata

Kokko Albizia lebbeck

Laurel Terminalia alata

MapleAcer spp.MachilusMachilus spp.MakaiShorea assamicaMangoMangifera spp.MullılamZanthoxylum rhetsaMundaniAcrocarpus fraxinifolius

Narikel Pterygota alata Nedunari Mansonia spp.

Pali Palaquium ellipticum
Piney Kingiodendron pinnatum
Pitraj Aphanamixis polystachya

Poon Calophyllum spp.
Pussur Xylocarpus spp.

Pymma Lagerstroemia hypoleuca

Red Bombwe Planchonia valida

Salai Boswellia serrata

Satinwood Chloroxylon swietenia
Silver Oak Grevillea robusta

Toon Toona cilata

Uriam Bischofia javanica

Vellapine Vateria indica

White Bombwe Terminalia procera

White Chuglam Terminalia bialata (Sapwood)'

(TDC 19)

INDIAN STANDARDS

ON

TEXTHE MILL ACCESSORIES (OTHER THAN JUTE MILLS)

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17	
1724-1971	Wooden warp bobbin for rabbeth spindles (second revision)
1794 1971	Shuttles for plain calico looms (first revision)
1896 1970	Picking sticks for overpick cotton looms (first revision)
2059 1973	Shuttles for pirn changing automatic cotton looms (first revision
2579 1963	Box back blacks for cotton looms
26_3 1961	Blanks for sley caps for cotton looms
2624 1964	Boards for sley races for cotion looms
2625 1961	Blanks for sley pottoms for cotton looms
3265 19 1	West puns taper in so use in shuttles for plain culco looms (first revision)
3496 1966	Dobby la sand pers
3625 19/1	W up tubes for use on aiuminium plug type spindles (first revision)
3833 1966	f lyer bobbins
3534 1966	Lease rods for cotton looms
4187-1967	Skewers for use on cotton speed frames
4416 1967	Dobby burles
4417 1971	West pirns for shuttles for pirn changing automatic cotton, woollen and worsted fooms (first revision)
4775 1976	Picking sticks for automatic and underpick looms first revision)
4888 1975	Paper cores for winding yarn (first revision)
5141 1969	Wooden cones for winding yarn
54/3/1069	Double flan red bobbins used in woollen and worsted mills
5492 1969	Pirns for we often and worsted plain looms
6268 1971	Accessories for use in shuttles for plain calico looms
7614 1975	Wooden bobbins for ring doubling and twisting frames

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